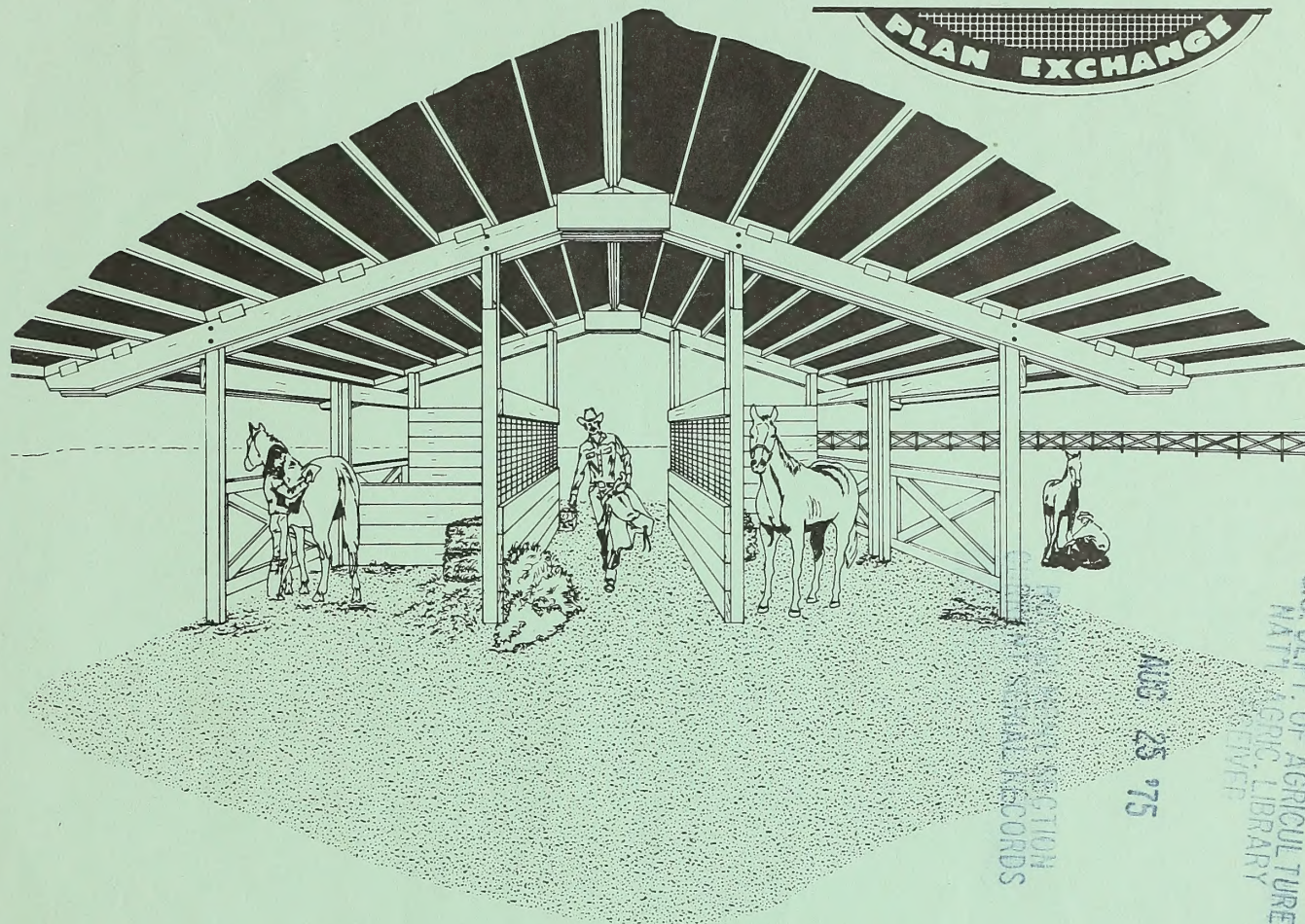


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HORSE BARN capacity 88 horses



Interest in horses has been rapidly increasing throughout the United States. Private and public facilities to handle large groups of horses are being requested. Today, many fairgrounds do not have sufficient stable space for horse shows for various public groups. As more horses are moved long distances from one area to another, a critical need for overnight lodging for horses arises.

This building is 40 feet wide and 240 feet long, and the length can be varied in 10-foot units. With a capacity for 88 tie stalls 5 by 10 feet in dimension, the building can be converted into 44 box stalls 10 by 10 feet in dimension. This conversion can be made by simply removing the 2 by 12 lumber pieces that are part of the removable stall partitions. These pieces of lumber can be pulled out when the outside stall doors are opened.

An 8-foot center alley provides for a public view of the animals. For safety reasons, there are no stall door openings into the alley. A 3-foot-high, 1- by 1-inch heavy-duty 10-gage wire screen is used along both sides of the center alley to provide for visual inspection of the horses. The screened wall section is 4 feet above the alley floor. Clay is used for the center alley and stall floors.

The barn is designed for low-cost pole or post construction. The plan shown is designed with the use of 6- by 6-inch posts for the main bearing columns and 4- by 4-inch posts with removable stall partitions.

Post construction is suggested to provide for ease of installation and operation of stall doors and removable partitions. Wood contacting the ground, or manure, should be pressure treated with preservatives to a minimum retention of 8 pounds-per-cubic-foot.

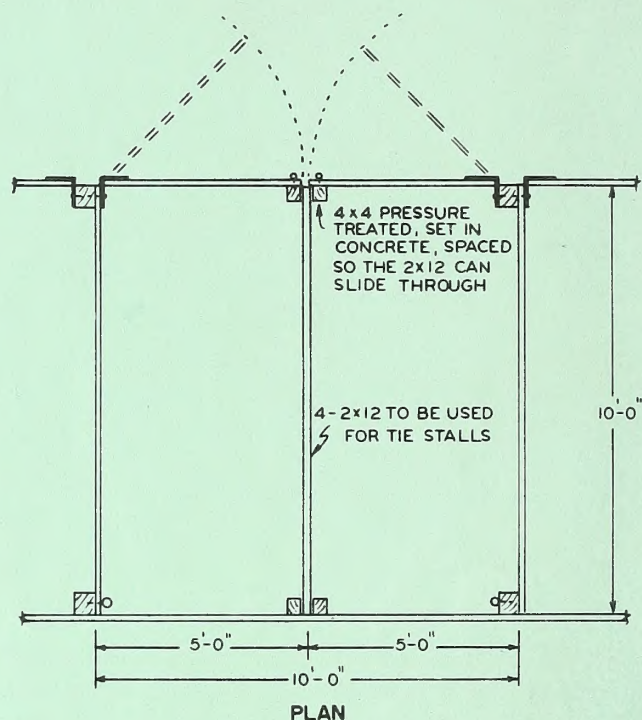
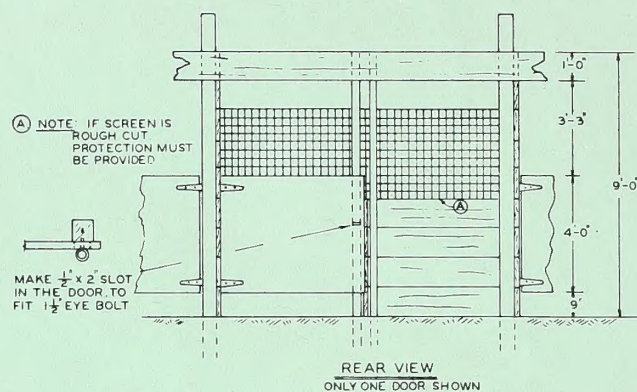
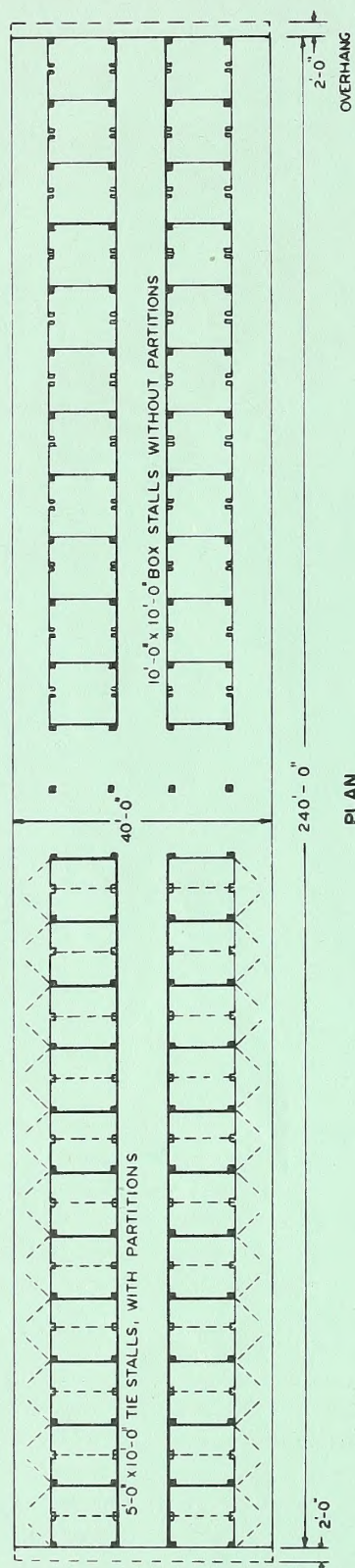
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No hay or grain storage is shown in the plan, since the horses at fairgrounds are generally fed by the owner from their own feed sources.

The roof is designed to withstand a load of 30 pounds-per-square-foot.

Complete working drawings may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university.

ORDER PLAN NO. 6148, HORSE BARN, Capacity 88 Horses.

AGRICULTURAL RESEARCH SERVICE

